Matrix New World Engineering, Inc. 26 Columbia Turnpike Florham Park, NJ 07932 973.240.1800 Fax 973.240.1818 www.matrixneworld.com



CLEARANCE LETTER

September 24, 2014

Mr. Christopher Mann ACB Consulting Services 292 Lafayette Street Newark, NJ 07102

Re: CLEARANCE LETTER

ASBESTOS-CONTAINING MATERIAL REMOVAL 71 LUDLOW STREET

NEWARK, NEW JERSEY MATRIX NO. 12-243E-08

Dear Mr. Mann:

Please be advised that asbestos abatement work associated with the Newark Housing Authority (NHA) former Reverend Otto E. Kretchner Homes Assembly Hall facility located at 71 Ludlow Street, Newark, NJ was completed from August 20, 2014 through September 24, 2014, in accordance with the procedures approved by the New Jersey Department of Labor (N.J.A.C. 12:120), the U.S. Environmental Protection Agency (USEPA) (40 CFR 763), and all applicable variances. The following is a table indicating materials, locations and approximate quantities of material removed:

| Location | Material Removed | Quantity | Procedure Used |
|-------------------------------------|---|-----------------|---|
| Exterior Elevations | Exterior Door and Window Frame Caulk | 705 LF | Exterior Non-Friable |
| Chimney Stack | (white) Expansion Joint/Expansion Joint Caulk | 1 LF | Exterior Non-Friable |
| | Pitch Pocket Material | 2 SF | |
| Roof Areas | Base Flashing | 746 SF | |
| Root Aleas | Base Flashing Tar | 475 SF | Exterior Non-Friable |
| | Vent Flashing/Tar | 17 SF (6 units) | |
| Parapet | Coping Stone Seam Caulk | 774 LF | |
| Gymnasium Office | Glue Backing to 4" (black) Cove Base Molding | 160 LF | Interior Non-Friable |
| Pipe/Pipe Fitting Insulation | Boiler Room/Lower Floors (throughout) | 70 LF (+/-) | Full Containment (variance for no ceiling, wall & floor poly) |
| Pipe/Pipe Fitting Debris | Boiler Room/Lower Floors (throughout) | 400 SF | Under Negative Pressure |
| Boiler & Breaching Insulation | Boiler Room | 870 SF | Full Containment (variance for no ceiling, wall & floor poly) |
| Tank Insulation | Boiler Room | 62 SF | Full Containment (variance for no ceiling, wall & floor poly) |
| Electrical Bolt Pads | Electrical Room | 4 Units | Intact Removal |
| Electrical Panel Door Insulation | Electrical Room | 15 SF | Intact Removal |
| 1 st Floor (throughout) | Vinyl Floor Tile & Mastic (multiple layers) | 2,750 SF | Interior Non-Friable |



The abatement was performed by Apex Development Incorporated and clearance air testing was conducted by a Matrix New World Engineering, Inc. (Matrix) Project Monitor inside and outside the interior "large" work areas (floor tile and thermal system insulation removals) in accordance with the approved procedures, indicating airborne fiber levels below 0.01 f/cc and 70 S/mm². Please note: in accordance with the project specifications as well as New Jersey Administrative Code Title 12, Chapter 120 (N.J.A.C. 12:120); exterior non-friable removal is not subject to the final air clearance criteria. During abatement (representative) air samples were collected by Matrix in order to document the work was being performed in a manner that was consistent with exterior "non-friable", and that there was no detectable fiber release during removal.

A visual inspection of the abated areas was conducted upon completion of the removal. Based upon the results of the during abatement air samples, post removal visual inspection and (as applicable) final clearance air testing, the area(s) listed above may be released for re-occupancy/demolition. If you have any questions, please call me at 973-585-9040.

Sincerely,

Gavin Gilmore - Project Manager

Attachment: (During Abatement) EMSL Lab Reports #051403805, #051404121, #051404120, #051404119,

#051404225, #031435223 & #031436198;

(Clearance) EMSL Lab Reports #051404226 & #051404375



ATTACHMENTS



1056 Stelton Road, Piscataway, NJ 08854 (732) 981-0550 / (732) 981-0551

Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com EMSL Order: CustomerID:

051403805

MATX53

CustomerPO: ProjectID:

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 Fax: (973) 240-1818 08/20/14 4:30 PM Received: Analysis Date: 8/21/2014 Collected: 8/20/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) Fibers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|-----------------------------------|--------------------------|-------------|---------------------------|--------|-----------------|----------------|---------------------|
| 82014-01 <i>051403805-0001</i> | At Remote Decon | 8/20/2014 | 1720.00 <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 82014-02 <i>051403805-0002</i> | At Ladder/Stairs to Roof | 8/20/2014 | 1720.00 <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 82014-03 <i>051403805-0003</i> | Middle Roof | 8/20/2014 | 1720.00 <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 82014-04 <i>051403805-0004</i> | Field Blank | 8/20/2014 | <5.5 | 100 | | <7.01 | Field Blank |
| 82014-05 <i>051403805-0005</i> | Field Blank | 8/20/2014 | <5.5 | 100 | | <7.01 | Field Blank |

The results reported have been blank corrected as applicable.

Analyst(s) Nicholas Maslowski (5)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 08/21/2014 15:12:50

OrderID: 051403805



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

051403805

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Company: Matrix New Wo | rld | | ill to: Same Diffe ferent note instructions in Comn | |
|--|---|--|--|--|
| Street: 26 Columbia Turny | oike | | quires written authorization | |
| City: Florham Park | State/Province: NJ | Zip/Postal Code: 0793 | | |
| Report To (Name): Gavin Gilm | | Telephone #: 973 - 24 | | DA |
| Email Address: ggilmore@ma | | | | -da |
| Project Name/Number: | | Please Provide Results | | □ Mail |
| U.S. State Samples Taken: | NJ | Connecticut Samples: [| | 1700000 |
| | | Γ) Options* – Please Che | ck | |
| | 24 Hour | | 96 Hour | 2 Week |
| *For TEM Air 3 hr through 6 hr, please call at an authorization form for this service. | nead to schedule." I here is a pren Analysis completed in accordar | nium charge for 3 Hour TEM AH nce with EMSL's Terms and Cor | IERA or EPA Level II TAT. Younglitions located in the Analytic | ou will be asked to sign |
| PCM - Air Check if samples are from | | 4.5hr TAT (AHERA only) | TEM- Dust | |
| NIOSH 7400 | ☐ AHERA 40 C | FR, Part 763 | ☐ Microvac - ASTM D | 5755 |
| w/ OSHA 8hr. TWA | ☐ NIOSH 7402 | | ☐ Wipe - ASTM D648 | 30 |
| PLM - Bulk (reporting limit) | ☐ EPA Level II | | ☐ Carpet Sonication (| (EPA 600/J-93/167) |
| ☐ PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculite | |
| ☐ PLM EPA NOB (<1%) | TEM - Bulk | | ☐ PLM CARB 435 - A | (0.25% sensitivity) |
| Point Count | ☐ TEM EPA NO | В | ☐ PLM CARB 435 - B | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | ☐ NYS NOB 198 | 3.4 (non-friable-NY) | ☐ TEM CARB 435 - B | |
| Point Count w/Gravimetric | ☐ Chatfield SOF | | ☐ TEM CARB 435 - C | (0.01% sensitivity) |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | ☐ TEM Mass An | alysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtra | ation Technique |
| ☐ NYS 198.1 (friable in NY) | TEM - Water: EF | PA 100.2 | ☐ TEM Qual. via Drop | o-Mount Technique |
| ☐ NYS 198.6 NOB (non-friable-NY) | Fibers >10µm [| ☐ Waste ☐ Drinking | Other: | |
| ☐ NIOSH 9002 (<1%) | All Fiber Sizes [| ☐ Waste ☐ Drinking | | |
| Check For Positive Stop - Clearly | Identify Homogenous G | oup Filter Pore Size (A | Air Samples): □ 0.8μr | m □ 0.45µm |
| | , lacitary montegeness of | oup interior ore oree (| th outhpies). | 111 U.40pin |
| Samplers Name: Math S | hallen | Samplere Signature: | Mother ell. | 1. |
| Samplers Name: Math S | heldon | Samplers Signature: | | Pato/Time |
| Samplers Name: Math S/ | Sample Description | | Matth Shale Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
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| Sample # | Sample Description | | Volume/Area (Air) | The second secon |
| Sample # | Sample Description | on . | Volume/Area (Air) HA # (Bulk) | The second secon |
| Client Sample # (s): \$\infty 8 2014 | Sample Description Attacke | 82014 - 05 | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Sampled 5 |
| Client Sample # (s): \$82014 Relinquished (Client): Math Sh | Sample Description Attacke > Colored Date: | 82014-05 8/10/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: | The second secon |
| Client Sample # (s): Second Sample # Shappen Sample # (s): Second Sample # (s): Second Sample # Shappen Samp | Sample Description Attacke | 82014-05 8/10/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Sampled 5 |
| Client Sample # (s): \$82014 Relinquished (Client): Math Sh | Sample Description Attacke > Colored Date: | 82014-05 8/10/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Sampled 5 |

Controlled Document - Asbestos COC - R5 - 1/11/2012

Page 1 of ____ pages

BY A. Cofen U EMSLPISCATAWAY

Page 2 of 2 051403805

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering East Hanover, N.J. 07936 120 Eagle Rock Avenue, Phone: 973-240-1800 Fax: 973-240-1818

During Abahement Phase

Flow Rate Method: Primary or Secondary Rotometer No.: M Date of Last Calibration:

Results RECEIVED **EMSL PISCATAWAY** Mold Project Manager: G. Gilmore Detection Limit of 12-243-08 fibers/ field Date: Time: Lead 1,700 Volume (Liters) Total 720 200 Analysis Requested: Asbestos PCM TEM Total Time (Minutes) 215 Received By: Time On/ Time Off 1518 2711 143 40 Z 24 HRS □ 72HRS □ 6 HRS Turnaround Time: 8.00 (LPM) Rate 8,00 Flow 8.8 □ Immediate □ 12 HRS □ 48 HRS Analyst: Initial / Final 8,00 3000 (LPM) Rate Flow 8,00 8000 At ladder/stairs to rout At Remote docon Field Blank Date: 8/20/14 Location 82014-04 Field Blank 82014-03 Aiddle Roct Time: 16 30 .: Blinquished By: Next Alalah Newark, NJ 820-H028 30- H1028 10- h1028 Site Location: 71 Ludlow Ave. Matt Sheldon Sample ID # 20/14 Project Name: Sampled By: Date: 908807190

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1056 Stelton Road, Piscataway, NJ 08854

(732) 981-0550 / (732) 981-0551 Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com EMSL Order: CustomerID:

051404121 MATX53

CustomerPO: ProjectID:

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 (973) 240-1818 Fax: 09/08/14 4:40 PM Received: Analysis Date: 9/9/2014

Collected:

9/6/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) F | Fibers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|----------------|--|-------------|----------------------|--------|--------|-----------------|----------------|---------------------|
| 0906-01 | Critical Barrier, S. Boiler Room Window | 9/6/2014 | 1092.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 051404121-0001 | ROOM WINDOW | | | | | | | |
| 0906-02 | Exhaust, S, Boiler Room | 9/6/2014 | 1092.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 051404121-0002 | Window | | | | | | | |
| 0906-03 | Decon, First Floor Hallway | 9/6/2014 | 1086.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 051404121-0003 | | | | | | | | |
| 0906-04 | Work Route, Below Stairs | 9/6/2014 | 1074.00 | <5.5 | 100 | 0.003 | <7.01 | <0.003 |
| 051404121-0004 | | | | | | | | |
| 0906-05 | Critical Barrier, S. Boiler | 9/6/2014 | 720.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404121-0005 | Room Window | | | | | | | |
| 0906-06 | Exhaust, S, Boiler Room | 9/6/2014 | 720.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404121-0006 | Window | | | | | | | |
| 0906-07 | Decon, First Floor Hallway | 9/6/2014 | 720.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404121-0007 | | | | | | | | |
| 0906-08 | Work Route, Below Stairs | 9/6/2014 | 720.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404121-0008 | | | | | | | | |
| 0906-FB1 | Field Blank | 9/6/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404121-0009 | | | | | | | | |
| 0906-FB2 | Field Blank | 9/6/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404121-0010 | | | | | | | | |

Analyst(s)

Susan Pollack (10)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/09/2014 11:23:15



1056 Stelton Road, Piscataway, NJ 08854 (732) 981-0550 / (732) 981-0551

Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com EMSL Order: CustomerID:

CustomerPO:

ProjectID:

051404121

MATX53

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike

Phone: (973) 240-1800 (973) 240-1818 Fax: 09/08/14 4:40 PM Received:

Analysis Date: 9/9/2014 Collected: 9/6/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Florham Park, NJ 07932

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

Volum e LOD Fibers/ Fibers/ (liters) Fibers Fields Sample Location Sample Date (fib/cc) mm^2 Notes

The results reported have been blank corrected as applicable.

Analyst(s)

Susan Pollack (10)

Chaiyut Sae Lao, Laboratory Manager

or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requireements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/09/2014 11:23:15



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

05/404/21

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Matria Nov. Was | cld. | | II to: Same Diffe | |
|--|--|-------------------------------|--|--|
| Company: Matrix New Wor | | If Bill to is Diffe | erent note instructions in Comr | ments** |
| Street: 26 Columbia Turnp | | | quires written authorization | |
| | State/Province: NJ | Zip/Postal Code: 0793 | 2 Country: U | SA |
| Report To (Name): Gavin Gilm | | Telephone #: 973-24 | 0-1800 | |
| Email Address: ggilmore@mat | rixneworld.com | Fax #: 973-240-18 | Purchase O | rder: |
| Project Name/Number: 12-243 | | Please Provide Results: | | ☐ Mail |
| U.S. State Samples Taken: | NJ | Connecticut Samples: | | idential |
| 3 Hour 6 Hour X2 | Turnaround Time (TAT | 「) Options* – Please Ched | 6 Hour 1 1 Week | ☐ 2 Week |
| *For TEM Air 3 hr through 6 hr, please call ahe | ead to schedule. *There is a pren | nium charge for 3 Hour TEM AH | ERA or EPA Level II TAT. Y | ou will be asked to sign |
| an authorization form for this service. | | | | ical Price Guide. |
| PCM - Air Check if samples are from | | 4.5hr TAT (AHERA only) | TEM- Dust Microvac - ASTM D | 5755 |
| NIOSH 7400 W/ OSHA 8hr. TWA | ☐ AHERA 40 C ☐ NIOSH 7402 | FR, Part 703 | ☐ Wipe - ASTM D648 | 11717777 |
| PLM - Bulk (reporting limit) | ☐ RIOSH 7402 | | ☐ Carpet Sonication | The second secon |
| PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculit | |
| ☐ PLM EPA NOB (<1%) | TEM - Bulk | | ☐ PLM CARB 435 - A | |
| Point Count | ☐ TEM EPA NO | R | ☐ PLM CARB 435 - E | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | | 8.4 (non-friable-NY) | ☐ TEM CARB 435 - B | |
| Point Count w/Gravimetric | ☐ Chatfield SOF | | ☐ TEM CARB 435 - 0 | |
| □ 400 (<0.25%) □ 1000 (<0.1%) | ☐ TEM Mass Ar | nalysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtr | ation Technique |
| NYS 198.1 (friable in NY) | TEM - Water: El | PA 100.2 | ☐ TEM Qual. via Dro | p-Mount Technique |
| NYS 198.6 NOB (non-friable-NY) | Fibers >10µm | ☐ Waste ☐ Drinking | Other: | The second second |
| ☐ NIOSH 9002 (<1%) | All Fiber Sizes [| ☐ Waste ☐ Drinking | | |
| | Identify Homogenous G | roup Filter Pore Size (A | Air Samples): 🔲 0.8µ | m □ 0.45µm |
| officer of tostave otop ofcarry | racitally from ogeneas of | | oupico). | |
| 1000 | 11 | | 14 . (1) 0 0 | |
| Samplers Name: Matt She | ldor | Samplers Signature: | Merto Sheld | |
| | | • | Volume/Area (Air) | Date/Time |
| Samplers Name: Matt She Sample # | Sample Descripti | • | 1 00 | |
| | | • | Volume/Area (Air) | Date/Time |
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| Sample # | Sample Descripti | • | Volume/Area (Air) | Date/Time |
| Sample # | Sample Description | on | Volume/Area (Air) HA # (Bulk) | Date/Time |
| Sample # Sce Client Sample # (s): 0906 - C | Sample Description Attacked | 6906-452 | Volume/Area (Air) | Date/Time Sampled |
| Sample # | Sample Description Attacked | 5906-4532 916/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Date/Time Sampled |
| Client Sample # (s): 0906 - C Relinquished (Client): Nate 3 | Sample Description Attacked | 6906-4532 9/6/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: | Date/Time Sampled |
| Sample # Sce Client Sample # (s): 0906 - C Relinquished (Client): Mutr 3/4 Received (Lab): | Sample Description Attacked | 6906-4532 9/6/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Date/Time Sampled |
| Sample # Sce Client Sample # (s): 0906 - C Relinquished (Client): Mate 34 | Sample Description Attacked | 5906-4FBZ 9/6/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: | Date/Time Sampled |
| Client Sample # (s): 0906 - C Relinquished (Client): Mutr 3/4 Received (Lab): | Sample Description Attacked | 5906-4FBZ 9/6/14 | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: Time: | Date/Time Sampled |
| Client Sample # (s): 0906 - C Relinquished (Client): Mutr 3/4 Received (Lab): | Sample Description Attacked I - () Pold Date: | SP06-4FB2 9/6/14 RE | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: Time: | Date/Time Sampled |

05/404/2 Page 1 of AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering 120 Eagle Rock Avenue,

East Hanover, N.J. 07936

Phone: 973-240-1800

Phase During

Rotometer No.: Mt X S Date of Last Calibration: \$\sqrt{11/13} \rightarrow \text{11/13} \rightarr

| Nome. | | | Turnarou | Turnaround Time: | | Analysis Requested: | | 12-243-08 | | |
|------------------------------|------------|---|-----------------|------------------|--------------|---------------------|----------|-----------------------------|-----------------------|----------|
| Project Ivalie: | AVA | | □ Immediate | | HRS | | 700 | | | |
| Site Location: 71 Lucion New | Newark, NJ | | | ZQ L | 24 HRS | Asbestos PCM TEM | 77 | Project Manager: G. Gilmore | ger: G. Gilm | lore |
| 02 | ldon | | 0 48 HKS | | | | | | | |
| 6/19/10 | - | | Initial / Final | Ave | | | To to | | | |
| | | | Flow Rate | Flow Rate | Time On/ | Total Time | Volume | fibers/ field | Limit of Detection | Results |
| # Cl olamoo | # | Location | (LPM) | (LPM) | Time Off | (Minutes) | (FIRCIS) | | | |
| + | | 1 12 Sec Children | 6,0 | 0'9 | 12021 | 281 | 2801 | | | |
| 9/6/14 0906-01 | | לו בולטן ואמונונו אי אמו המשי | | 0) | 90;6 | 281 | 1092 | | | |
| 20-9060 | 3 26 | Exhaust S. Boiler Roan Window | 0.9 | , , | 1506 | - | 1001 | | | |
| | | # 1 E H | 000 | 0'9 | 1971 | 181 | 1080 | | | |
| \$0-9060 | | Decen, First Floor Hallway | 000 | 9.9 | 9:03 | 179 | 1,074 | | | |
| 0906- | 10. | 0906-04 Wat Rode (Rlay Shirs | 6.0 | | 1300 | 1111 | 270 | | | |
| 1 1000 | 20 | Service Spaler Rock With | 000 | 2,0 | 15:24 | - 44 | 3 | | | |
| 0300 | | 1 1 8 1 0 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 11 | 5.0 | 1300 | 144 | 2001 | | | 1 |
| 90-90-60 | | Exhaust > Boiler Noon Window | o v | 1 | 1301 | יתה | 720 | | REC | RECEIVED |
| TO- 30#00 | 10- | Docor First Floor Hallway | _ | 0,0 | 15:25 | | - 5 | | | |
| 0 | 201 | 1 2 | 5,0 | 5.0 | 15:51 | 144 | 27/ | | | 102 00 |
| 200 | 0 | Wei K local | | | | | | >0 | | |
| 0906 - FBI | -FBI | Field Blank | | | | | | 1 | EMSLPISCATAWAY | ATAWAY |
| J 0406-FBZ | FB2 | Field Blank | | | | | | | | |
| Desironished By: Math Rolls | Stoler | Date: 9/6/14 | | | Received By: | Эу: | | Date: | | |
| - (| | | | | | | | | | |



1056 Stelton Road, Piscataway, NJ 08854

(732) 981-0550 / (732) 981-0551 Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com EMSL Order: CustomerID:

051404120

MATX53

CustomerPO: ProjectID:

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 (973) 240-1818 Fax: 09/08/14 4:40 PM Received: Analysis Date: 9/9/2014

Collected:

9/7/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) I | Fibers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|----------------|--------------------------------------|-------------|----------------------|--------|--------|-----------------|----------------|---------------------|
| 0907-01 | Decon Entrance, 1st Floor Hallway | 9/7/2014 | 1025.00 | 11.5 | 100 | 0.003 | 14.6 | 0.006 |
| 051404120-0001 | i iaiiway | | | | | | | |
| 0907-02 | Work Route, Below | 9/7/2014 | 1020.00 | <5.5 | 100 | 0.003 | <7.01 | <0.003 |
| 051404120-0002 | Stairway | | | | | | | |
| 0907-03 | Exhaust, S. Boiler Room | 9/7/2014 | 1025.00 | 8 | 100 | 0.003 | 10.2 | 0.004 |
| 051404120-0003 | Window | | | | | | | |
| 0907-04 | Critical Barrier, N. Boiler | 9/7/2014 | 1025.00 | 11 | 100 | 0.003 | 14.0 | 0.005 |
| 051404120-0004 | Room Window | | | | | | | |
| 0907-05 | Decon Entrance, 1st Floor | 9/7/2014 | 820.00 | 7 | 100 | 0.003 | 8.92 | 0.004 |
| 051404120-0005 | Hallway | | | | | | | |
| 0907-06 | Work Route, Below | 9/7/2014 | 820.00 | <5.5 | 100 | 0.003 | <7.01 | <0.003 |
| 051404120-0006 | Stairway | | | | | | | |
| 0907-07 | Exhaust, S. Boiler Room | 9/7/2014 | 820.00 | <5.5 | 100 | 0.003 | <7.01 | <0.003 |
| 051404120-0007 | Window | | | | | | | |
| 0907-08 | Critical Barrier, N. Boiler | 9/7/2014 | 820.00 | <5.5 | 100 | 0.003 | <7.01 | <0.003 |
| 051404120-0008 | Room Window | | | | | | | |
| 0907-FB1 | Field Blank | 9/7/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404120-0009 | | | | | | | | |
| 0907-FB2 | Field Blank | 9/7/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404120-0010 | | | | | | | | |

Analyst(s)

Susan Pollack (10)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/09/2014 11:20:35



1056 Stelton Road, Piscataway, NJ 08854 Phone/Fax: (732) 981-0550 / (732) 981-0551

http://www.EMSL.com

..com piscatawaylab@emsl.com

EMSL Order: CustomerID: 051404120 MATX53

MATX

CustomerPO: ProjectID:

ttn: Gavin Gilmore
Matrix New World Engineering
26 Columbia Turnpike
Florham Park, NJ 07932

Phone: (973) 240-1800 Fax: (973) 240-1818 Received: 09/08/14 4:40 PM

Analysis Date: 9/9/2014 Collected: 9/7/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

 Volume
 LOD
 Fibers/
 Fibers/

 Sample
 Location
 Sample Date
 (liters) Fibers Fields
 (fib/cc)
 mm²
 cc
 Notes

The results reported have been blank corrected as applicable.

Analyst(s)

Susan Pollack (10)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/09/2014 11:20:35

OrderID: 051404120



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

051404120

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Company: Matrix New World | | | ill to: ☐ Same ☐ Diffe ferent note instructions in Comm | |
|---|-----------------------------|-------------------------|--|-----------------------|
| Street: 26 Columbia Turnpike | | | quires written authorization | |
| El asala am Davala | Province: NJ | Zip/Postal Code: 0793 | | |
| Report To (Name): Gavin Gilmore | | Telephone #: 973-24 | 0-1800 | |
| Email Address: ggilmore@matrixn | neworld.com | Fax #: 973-240-18 | | rder. |
| Project Name/Number: \2-243-08 | | Please Provide Results: | | □ Mail |
| U.S. State Samples Taken: NJ | | Connecticut Samples: [| | |
| | |) Options* - Please Che | ck | |
| 3 Hour 6 Hour 24 Hour | | | 6 Hour 1 Week | 2 Week |
| *For TEM Air 3 hr through 6 hr, please call ahead to so an authorization form for this service. Analysis | | | | |
| PCM - Air Check if samples are from NY | | 4.5hr TAT (AHERA only) | TEM- Dust | |
| ₩ NIOSH 7400 | ☐ AHERA 40 C | FR, Part 763 | ☐ Microvac - ASTM □ | 5755 |
| | ☐ NIOSH 7402 | | ☐ Wipe - ASTM D648 | 30 |
| PLM - Bulk (reporting limit) | ☐ EPA Level II | | ☐ Carpet Sonication (| (EPA 600/J-93/167) |
| ☐ PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculite | 9 |
| ☐ PLM EPA NOB (<1%) | TEM - Bulk | | ☐ PLM CARB 435 - A | (0.25% sensitivity) |
| Point Count | ☐ TEM EPA NO | | ☐ PLM CARB 435 - B | 3 (0.1% sensitivity) |
| 400 (<0.25%) 1000 (<0.1%) | | 3.4 (non-friable-NY) | ☐ TEM CARB 435 - B | 3 (0.1% sensitivity) |
| Point Count w/Gravimetric | ☐ Chatfield SOP | | ☐ TEM CARB 435 - C | C (0.01% sensitivity) |
| 400 (<0.25%) 1000 (<0.1%) | | alysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtra | ation Technique |
| NYS 198.1 (friable in NY) | TEM - Water: EF | PA 100.2 | ☐ TEM Qual. via Drop | o-Mount Technique |
| NYS 198.6 NOB (non-friable-NY) | Fibers >10µm [| | Other: | |
| ☐ NIOSH 9002 (<1%) | All Fiber Sizes | ☐ Waste ☐ Drinking | | |
| | v Homogenous Gr | oup Filter Pore Size (A | Air Samples): 🔲 0.8µ | m □ 0.45µm |
| | | | | |
| M . 0/ | | T THE TOTE SIZE (A | m Do | |
| Samplers Name: Math Sheld | | Samplers Signature: | M. On | |
| Samplers Name: Math Sheld | 0 | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| M 1 C/ 11 | | Samplers Signature: | Meth Sh | |
| Samplers Name: Math Sheld | 0 | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld | 0 | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld | 0 | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Samplers Name: Math Sheld Sample # | Sample Description | Samplers Signature: | Meth SL Volume/Area (Air) | Date/Time |
| Sample # Sheld Sample # Sce Client Sample # (s): 0907-01 | Sample Description | Samplers Signature: | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Date/Time |
| Sample # Sample # Sce Client Sample # (s): 0907-01 Relinquished (Client): Meth Sch | Sample Description A Hacke | Samplers Signature: | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: | Date/Time |
| Sample # Sample # Sce Client Sample # (s): 0907-01 Relinquished (Client): Math Sch | Sample Description AHache | Samplers Signature: | Volume/Area (Air) HA # (Bulk) Total # of Samples: | Date/Time |
| Sample # Sample # Sce Client Sample # (s): 0907-01 Relinquished (Client): Meth Sch | Sample Description A Hacke | Samplers Signature: | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: | Date/Time Sampled |
| Sample # Sample # Sce Client Sample # (s): 0907-01 Relinquished (Client): Math Sch | Sample Description A Hacke | Samplers Signature: | Volume/Area (Air) HA # (Bulk) Total # of Samples: Time: | Date/Time Sampled |

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Page ___ of__

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering 120 Eagle Rock Avenue, East Hanover, N.J. 07936 Phone: 973-240-1800 Fax: 973-240-1818

Phase Dong

Rotometer No.: MTX - S
Date of Last Calibration: \$\int 2/2////\footnote{17}\)
Flow Rate Method: Primary or Secondary

| | ilmore | 9 20 0 | | | | | | | RECEIVED | 2014 | | IWAY | | |
|---------------------|------------------------------------|---------------------|------------------------|---------------------------|------------------------------|--------------------------------|----------|---------------------|----------|------------------|-------------|---|-----------------|-------|
| | ager: G <u>. G</u> | Limit of | Defection | | | | | | RECE | 60 | | LPISCATAWAN | | |
| 12-243-08 | | fibers/ | Die I | | | | | | | E | Ву | EIMSE | Date: | Time: |
| quested: | Lead | Total Volume | (Liters) | 000'1 | 1,025 | .5201 | 620 | 850 | 850 | 018 | Ē | | | |
| Analysis Requested: | Askestos PCM TEM | Total Time | (Minutes) | 402 | 502 | 205 | 164 | 164 | 164 | 1591 | | | | |
| | (O 10 | Time On/ | 8:17 | 81:8 | 8:18 | 81:8 | 42:21 | 80:51 h2:21 | 57:21 | 57:27 | | | Received By: | |
| Q | | Ave Flow Rate | (LPM) 5,0 | 5.0 | 5.0 | 5.0 | Sic | Sic | Sic | 5.0 | | | | |
| 1 | □ Immediate □ 12 HRS □ 48 HRS | | (LPM) 5.6 | 2000 | 5,0 | 5.00 | 5,0 | 5,0 | 5,0 | 5,0 | | | | |
| | | | Location [] Location | Mist Rolls Bolow Startway | Fyhoust S. Co. In Row Window | Critical N. Boiler Born window | 1 2 | Work Below Stailway | 1 3 | Critical (Zulier | Fielz Blank | Field Blank | Date: 9/7/14 | |
| 2.5 | Newark, NJ Newark, NJ Matt Sheldon | | Sample ID # | | | 0907-090 | 50- 7080 | 10- raps | | | | 0907-FBL | " Mat Shell | OI J |
| Project Name: | led By | Date | 0/2/14 | | 3 O E | bage | | | | | 0 | 7 | O Sinquished By | JIJ |

7

A1.01 LAN ASSOCIATES KENNETH H. KARLE, R.A. NAJA NOTTUONELI TYENEÈAE SCALE: 1/16"=1"-0" Sanple#'s 0907 - ## Boiler Room KEYPLAN (00) BASEMENT DEMOLITION PLAN



1056 Stelton Road, Piscataway, NJ 08854

(732) 981-0550 / (732) 981-0551 Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com EMSL Order: CustomerID:

051404119

MATX53

CustomerPO: ProjectID:

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 (973) 240-1818 Fax: 09/08/14 4:40 PM Received: Analysis Date: 9/9/2014

9/8/2014

Collected:

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) 1 | Fibers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|----------------|--------------------------|-------------|----------------------|--------|--------|----------------|----------------|---------------------|
| 0908-01 | Decon, 1st Floor Hallway | 9/8/2014 | 1035.00 | 11.5 | 100 | 0.003 | 14.6 | 0.005 |
| 051404119-0001 | | | | | | | | |
| 0908-02 | Work Route, Below | 9/8/2014 | 1035.00 | 8 | 100 | 0.003 | 10.2 | 0.004 |
| 051404119-0002 | Stairway | | | | | | | |
| 0908-03 | Exhaust, S. Boiler Room | 9/8/2014 | 1035.00 | <5.5 | 100 | 0.003 | <7.01 | <0.003 |
| 051404119-0003 | Window | | | | | | | |
| 0908-04 | Waste Route, N. Boiler | 9/8/2014 | 1035.00 | 15.5 | 100 | 0.003 | 19.7 | 0.007 |
| 051404119-0004 | Room / Critical | | | | | | | |
| 0908-05 | Decon, 1st Floor Hallway | 9/8/2014 | 670.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404119-0005 | | | | | | | | |
| 0908-06 | Work Route, Below | 9/8/2014 | 670.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404119-0006 | Stairway | | | | | | | |
| 0908-07 | Exhaust, S. Boiler Room | 9/8/2014 | 670.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404119-0007 | Window | | | | | | | |
| 0908-08 | Waste Route, N. Boiler | 9/8/2014 | 670.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 051404119-0008 | Room / Critical | | | | | | | |
| 0908-09 | Field Blank | 9/8/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404119-0009 | | | | | | | | |
| 0908-10 | Field Blank | 9/8/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404119-0010 | | | | | | | | |

Analyst(s) Susan Pollack (10)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/09/2014 11:17:12



1056 Stelton Road, Piscataway, NJ 08854 (732) 981-0550 / (732) 981-0551

Phone/Fax: http://www.EMSL.com

piscatawaylab@emsl.com

EMSL Order: CustomerID:

051404119 MATX53

CustomerPO:

ProjectID:

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 (973) 240-1818 Fax: 09/08/14 4:40 PM Received: Analysis Date: 9/9/2014

Collected: 9/8/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

Volum e LOD Fibers/ Fibers/ (liters) Fibers Fields Sample Location Sample Date (fib/cc) mm^2 Notes

The results reported have been blank corrected as applicable.

Analyst(s) Susan Pollack (10)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requireements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/09/2014 11:17:12

OrderID: 051404119



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

051404119

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Company: Matrix New Wo | orld | | II to: Same Different note instructions in Com | |
|--|-------------------------|---------------------------|--|----------------------|
| Street: 26 Columbia Turny | oike | Third Party Billing red | uires written authorization | from third party |
| City: Florham Park | State/Province: NJ | Zip/Postal Code: 0793 | | |
| Report To (Name): Gavin Gilm | | Telephone #: 973-24 | | D11 |
| Email Address: ggilmore@ma | | | | rdo n |
| | 3-08 | Please Provide Results: | | ⊓ Mail |
| U.S. State Samples Taken: | NJ | Connecticut Samples: | | |
| | | T) Options* - Please Ched | k | |
| | 24 Hour | | 6 Hour | ☐ 2 Week |
| *For TEM Air 3 hr through 6 hr, please call all an authorization form for this service. | | | | |
| PCM - Air Check if samples are from | | 4.5hr TAT (AHERA only) | TEM- Dust | |
| NIOSH 7400 | ☐ AHERA 40 C | FR, Part 763 | ☐ Microvac - ASTM [| 5755 |
| w/ OSHA 8hr. TWA | □ NIOSH 7402 | | ☐ Wipe - ASTM D648 | 30 |
| PLM - Bulk (reporting limit) | ☐ EPA Level II | | ☐ Carpet Sonication | (EPA 600/J-93/167) |
| PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculit | |
| ☐ PLM EPA NOB (<1%) | TEM - Bulk | | ☐ PLM CARB 435 - A | (0.25% sensitivity) |
| Point Count | ☐ TEM EPA NO | В | ☐ PLM CARB 435 - E | 3 (0.1% sensitivity) |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | ☐ NYS NOB 19 | 8.4 (non-friable-NY) | ☐ TEM CARB 435 - E | 3 (0.1% sensitivity) |
| Point Count w/Gravimetric | ☐ Chatfield SOF | | ☐ TEM CARB 435 - 0 | 0.01% sensitivity) |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | ☐ TEM Mass Ar | nalysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtr | ation Technique |
| NYS 198.1 (friable in NY) | TEM - Water: E | PA 100.2 | ☐ TEM Qual. via Dro | p-Mount Technique |
| NYS 198.6 NOB (non-friable-NY) | Fibers >10µm | ☐ Waste ☐ Drinking | Other: | |
| □ NIOSH 9002 (<1%) | All Fiber Sizes | ☐ Waste ☐ Drinking | | |
| Check For Positive Stop - Clearly | y Identify Homogenous G | roup Filter Pore Size (A | ir Samples): 🔲 0.8µ | m □ 0.45µm |
| Samplers Name: Morth She | ldon | Samplers Signature: | Mett She | lda |
| Sample # | Sample Descripti | on | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
| | | | | |
| | 0 10 10 | | | |
| | See Attached | | | |
| | , | | | |
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| | | | v = | |
| - P. P. | | | | |
| | | | | |
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| | | | | |
| | | C-C 502 | | 1/2 |
| Client Sample # (s): 09080 | - 0 | 908 FBZ | Total # of Samples: | 10 |
| Relinquished (Client): | Hola Date: | 9/8/14 | Time: | |
| Pacaivad (Lah): | | | ECENED - | 4400m |
| Received (Lab): Comments/Special Instructions: | Date: | | RECEIVED Time: | 100/0 |
| Commenter operation in a tradition is. | | | | 111 7 |
| | | | EP 08 2014 | Wat |
| Controlled Document – Asbestos COC – R5 – 1/11/2012 | | . 1 | 7/. | |

(over

611404150

Page

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Phase Outiny

Date of Last Calibration: 8/21/14 Flow Rate Method: Primary or Secondary Rotometer No.: MXX - &

| Project Name: | ne: on: 71 Ludlow Ave. | | | nd Time: | (| Analysis Requested: | luested: | 12-243-08 | | |
|----------------|---------------------------|-------------------------------|--------------|---------------------|--------------|---------------------|-------------------|-----------|---|---------|
| | 1 1 | 77. | ☐ Immediate | e G 6 HRS | HRS | Aspestos | Lead | | | |
| Sampled By: | y: Matt Sheldon | | | 0 72 | 0 | PCM TEM | Mold | | Project Manager: G. Gilmore | ore |
| Date: | | | □ Other | | | | | | | |
| | | | a | Ave Flow Rate | Time On/ | Total Time | Total | fibers/ | Limit of | : |
| 171/8/6 | Sample ID # | Dens 1st Floor Helless | (LPM) | (LPM) S.6 | S:41 | (Minutes) | (Liters) 10 35 | tield | Detection | Kesults |
| | 20-8060 | | | Sic | 8:41 | 207 | 1,035 | | | |
| 30 S | 50-8060 | +53 | 5.0 | Sic | 27:21 | 107 | 1,035 | | | |
| sage. | 40-80 60 | Wash N. Boiler Room/Costan | SSSS | Sic | 21:21 | 201 | 1,035 | | | |
| | | | 5.0 | 56 | 13:16 | 134 | 020 | | | |
| | | | 5,0 | 5,0 | 13:10 | hE1 | 019 | | | |
| | C0-3060 | - 750 | 5.0 | S,6 | 13;[] | 134 | 070 | | | |
| | 80-8060 | waste N. Boiler Room / Litien | | 2,0 | 13:11 | 134 | 670 | | | |
| 6 | 187-8060 | Fielz Blank | | ^ | \ | | | | | |
| TIĐOĐ | 0908-1-62 | Field Blank | 1 | | / | | 2 | | RECEIVED | VED |
| Inquished [| linquished By: West Reld | Date: 69/8/14 | | | Received By: | | | Date: | SEP 08 2014 | 2014 |
| GLID | | Time: | | | | | F | Time: BY | TAIN TO THE PARTY OF THE PARTY | VALVA |
| | | | | | | | | - | | |

Matrix New World Engineering

120 Eagle Rock Avenue, East Hanover, N.J. 07936 Phone: 973-240-1800 Fax: 973-240-1818

A101 ASSOCIATES KENNETH H. KARLE, R.A. NΑJ HALFI NOTILIONERT TREMOLITION FLAN PICH NORTH SCALE: 1/16"=1"-0" Sample # 's 0908- ## Boiler foon KEYPLAN 03) 60 BASEMENT DEMOLITION PLAN M/8/14



1056 Stelton Road, Piscataway, NJ 08854

(732) 981-0550 / (732) 981-0551 Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com

EMSL Order: CustomerID: CustomerPO:

ProjectID:

051404225

MATX53

Gavin Gilmore Matrix New World Engineering 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 (973) 240-1818 Fax: 09/12/14 3:45 PM Received: Analysis Date: 9/13/2014 Collected: 9/11/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) F | ibers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|----------------|--------------------------|-------------|----------------------|-------|--------|-----------------|----------------|---------------------|
| 0911-01 | Decon, 1st Floor Hallway | 9/11/2014 | 1282.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 051404225-0001 | | | | | | | | |
| 0911-02 | Work Route, Below | 9/11/2014 | 1295.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 051404225-0002 | Stairway | | | | | | | |
| 0911-03 | Critical, Middle | 9/11/2014 | 1295.00 | 7 | 100 | 0.002 | 8.92 | 0.003 |
| 051404225-0003 | Window/Door | | | | | | | |
| 0911-04 | Exhaust, Middle Ramp | 9/11/2014 | 1295.00 | 5.5 | 100 | 0.002 | 7.01 | 0.002 |
| 051404225-0004 | | | | | | | | |
| 0911-05 | Waste Route, N. Boiler | 9/11/2014 | 1259.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 051404225-0005 | Room/Critical | | | | | | | |
| 0911-FB1 | Field Blank | 9/11/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404225-0006 | | | | | | | | |
| 0911-FB2 | Field Blank | 9/11/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 051404225-0007 | | | | | | | | |

The results reported have been blank corrected as applicable.

Analyst(s) Susan Pollack (7)

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.34, 21-50 fibers = 0.26, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial report from 09/13/2014 13:32:08

OrderID: 051404225



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

051404225

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Company: Matris New Wor | ld | | ill to: Same Diffe | |
|--|-------------------------------|--------------------------------|--------------------------------------|--|
| Street: 26 Columbia Turn | Pike | Third Party Billing re | quires written authorization | from third party |
| City: Florum Park | State/Province: NJ | Zip/Postal Code: | Country: | |
| Report To (Name): | | Telephone #: | | |
| Email Address: | | Fax #: | Purchase Or | der: |
| Project Name/Number: | | Please Provide Results | | Mail |
| U.S. State Samples Taken: | | Connecticut Samples: [| | dential |
| | | T) Options* - Please Che | | 15 |
| 3 Hour 6 Hour | 24 Hour 48 Hour | | 96 Hour | 2 Week |
| an authorization form for this service. | Analysis completed in accorda | ance with EMSL's Terms and Cor | nditions located in the Analytic | cal Price Guide. |
| PCM - Air Check if samples are from | | -4.5hr TAT (AHERA only) | TEM- Dust | |
| NIOSH 7400 | AHERA 40 C | | Microvac - ASTM D | |
| w/ OSHA 8hr. TWA | ☐ NIOSH 7402 | | ☐ Wipe - ASTM D648 | |
| PLM - Bulk (reporting limit) | ☐ EPA Level II | | Carpet Sonication (| |
| PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculite | North and the second of the se |
| PLM EPA NOB (<1%) | TEM - Bulk | | PLM CARB 435 - A | |
| Point Count | TEM EPA NO | | PLM CARB 435 - B | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) Point Count w/Gravimetric | ☐ Chatfield SO | 98.4 (non-friable-NY) | ☐ TEM CARB 435 - B☐ TEM CARB 435 - C | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | | nalysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtra | |
| NYS 198.1 (friable in NY) | TEM - Water: E | | ☐ TEM Qual. via Drop | |
| NYS 198.6 NOB (non-friable-NY) | | ☐ Waste ☐ Drinking | Other: | mount roominguo |
| ☐ NIOSH 9002 (<1%) | | ☐ Waste ☐ Drinking | | |
| | | | | |
| Check For Positive Stop - Clearl | y Identify Homogenous G | Filter Pore Size (/ | Air Samples): 0.8µ | m |
| Samplers Name: Math She | 12cm | Samplers Signature: | Meuts St | da |
| Sample # | Sample Descript | ion | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
| | | | 1 | |
| SEE A' | TTACHED | | | |
| | | | | |
| | | | 11 | |
| | | | | |
| | | | | |
| Pleas e | -mail results t | 0 | | |
| | re@matrixneworld | | | |
| | n@matrixneworld | | | |
| _ | ni@macrixneworic | | | _ |
| Client Sample # (s): 6911-01 | - O A | FB2 | Total # of Samples: | |
| Relinquished (Client): | Date | : 9/11/14 | Time: | 157 |
| Received (Lab): | Date | : R | ECEIVED Time: | |
| Comments/Special Instructions: | | | | |
| | | SE SE | P 12 2014 | |
| | | TO SE | 1 4 4011 | 0 |

Controlled Document - Asbestos COC - R5 - 1/11/2012

Page 1 of _____ pages

BY A-Topicin 345PM EMSLPISCATAWAY W.J

Page 051404135

o o

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Phase

During

Flow Rate Method: Primary or Secondary

Date of Last Calibration:

Rotometer No.:

Results Lead | Mold | Project Manager: G. Gilmore RECEIVED **EMSLPISCATAWAY** Detection Limit of 12-243-08 fibers/ field 6 1,295 Volume (Liters) 1,282 1,295 6521 5621 Analysis Requested: Total Asbestos PCM TEM Time On/ Total Time (Minutes) 552 5 529 Time Off 81:0 2:35 □ 6 HRS 91:01 2:35 10:10 2:35 2:35 10:16 □ 72HRS Turnaround Time: (LPM) Rate Flow 4.95 5,0 Sic Sic 0 □ Immediate J □ 48 HRS 0 12 HRS Initial / Final Flow Rate (LPM) 5.0 5.0 5.0 5.0 D. Boiler Room / cutial 4.8 0 0 5.0 5.6 1st Floor Hallmay below stairway Critical Middle winds/ Door Exhaust Middle ramp Field Blank Field Blank Location Decon roote 2503 Foot FO Inquished By: Mart Shellon Newark, NJ 71 Ludlow Ave. 0911-FBZ Matt Sheldon Sample ID # 50-1100 0911 - FB 20-1160 20-1100 20-1160 10-1160 カニ 100 Site Location: Project Name: Sampled By: 4/11/6 Date:

7 JΟ

Ьяде

Analyst:

Date: Time:

Received By:

Date: 0/11/14

OxqexID:

7

Matrix New World Engineering

East Hanover, N.J. 07936

Phone: 973-240-1800

Fax: 973-240-1818

120 Eagle Rock Avenue,

A101 **ASSOCIATES** KENNETH H. KARLE, RA. SCALE: 1/16"=1"-0" Sample #'s 0911 - ## Boiler Goom (Basenent KEYPLAN BASEMENT DEMOLITION PLAN



307 West 38th Street, New York, NY 10018 Phone/Fax: (212) 290-0051 / (212) 290-0058

http://www.EMSL.com manhattanlab@emsl.com EMSL Order: CustomerID: CustomerPO:

031435223 MATX53

ProjectID:

Attn: Gavin Gilmore **Matrix New World Engineering** 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 (973) 240-1818 Fax: Received: 09/12/14 10:43 AM

Analysis Date: 9/12/2014 Collected: 9/10/2014

Project: 12-243-08/71 LUDLOW AVE/ NEWARK, NJ/ DURING REMOVAL

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) I | ibers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|----------------|--------------------------------------|-------------|----------------------|-------|--------|-----------------|----------------|---------------------|
| 0910-01 | OUTSIDE DECON CLEAN ROOM - DURING | 9/10/2014 | 1270.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 031435223-0001 | REMOVAL | | | | | | | |
| 0910-02 | RAMP OUTSIDE AFD | 9/10/2014 | 1290.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 031435223-0002 | BANK - DURING REMOVAL | | | | | | | |
| 0910-03 | OUTSIDE BOILER | 9/10/2014 | 1315.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 031435223-0003 | ROOM AFD BANK - DURING REMOVAL | | | | | | | |
| 0910-04 | OUTSIDE WASTE | 9/10/2014 | 1335.00 | 7.5 | 100 | 0.002 | 9.55 | 0.003 |
| 031435223-0004 | CONTAINER - DURING REMOVAL | | | | | | | |
| 0910-05 | OUTSIDE DECON | 9/10/2014 | 1630.00 | 8 | 100 | 0.002 | 10.2 | 0.002 |
| 031435223-0005 | CLEAN ROOM - DURING REMOVAL | | | | | | | |
| 0910-06 | RAMP OUTSIDE AFD BANK - DURING | 9/10/2014 | 1520.00 | 5.5 | 100 | 0.002 | 7.01 | 0.002 |
| 031435223-0006 | REMOVAL | | | | | | | |
| 0910-07 | OUTSIDE BOILER | 9/10/2014 | 1580.00 | <5.5 | 100 | 0.002 | <7.01 | <0.002 |
| 031435223-0007 | ROOM AFD BANK - DURING REMOVAL | | | | | | | |
| 0910-08 | OUTSIDE WASTE | 9/10/2014 | 1570.00 | 5.5 | 100 | 0.002 | 7.01 | 0.002 |
| 031435223-0008 | CONTAINER - DURING REMOVAL | | | | | | | |
| 0910-09 | FIELD BLANK | 9/10/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 031435223-0009 | | | | | | | | |
| 0910-10 | FIELD BLANK | 9/10/2014 | | <5.5 | 100 | | <7.01 | Field Blank |
| 031435223-0010 | | | | | | | | |

SCOPE #2 MEIJI TECH MT 5000 SER#139601

The results reported have been blank corrected as applicable.

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.25, 21-50 fibers = 0.22, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 09/12/2014 23:08:53



307 West 38th Street, New York, NY 10018

(212) 290-0051 / (212) 290-0058 Phone/Fax:

manhattanlab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID:

ProjectID:

031435223

MATX53

CustomerPO:

Attn: Gavin Gilmore **Matrix New World Engineering** 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 Fax: (973) 240-1818 Received: 09/12/14 10:43 AM

Analysis Date: 9/12/2014 Collected: 9/10/2014

Project: 12-243-08/71 LUDLOW AVE/ NEWARK, NJ/ DURING REMOVAL

The samples in this report were submitted to EMSL for analysis by Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

SCOPE #2 MEIJI TECH MT 5000 SER#139601

Sample Receipt Date:: 9/12/2014 Sample Receipt Time: 10:43 AM Analysis Completed Time: 11:07 PM Analysis Completed Date: 9/12/2014

Analyst(s):

Emmanuel Velez PCM (10)

Samples reviewed and approved by:

James Hall, Laboratory Manager or other approved signatory

James PAM

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.25, 21-50 fibers = 0.22, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

OrderID: 031435223



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

031435223

EMSL'ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675

Fax: (856) 786-5974

| | | | - | | | | | | |
|---------------------------|----------------------|-------------|---|-----------------|--|--------|-----------------|------------------|---------------------------|
| Company: Matris | s New Wor | ld | | | | | | ame Diffe | |
| Street: 26 Colum | mbia Turn | Pike | - | | Third Party Billin | na rea | uires writte | n authorization | from third party |
| City: Florum Pa | ark | State/P | rovince: NJ | Zip/P | ostal Code: | J - 1 | | Country: | , <u>,</u> |
| Report To (Name): | PAVIN GILMO | | | | hone #: | | | | |
| Email Address: | | | WOOLD COM | Fax # | | | | Purchase O | rder: |
| Project Name/Numbe | | | 1001047-COI | | se Provide Res | ulte: | □ Fay | | ∏ Mail |
| U.S. State Samples T | aken: 10 | <u> </u> | - | | ecticut Sample | | | | idential |
| | | Turn | around Time (TA | | <u> </u> | | | | |
| 3 Hour 6 | Hour 🔯 | 24 Hour | ☐ 48 Hour | Tin | 72 Hour | | 6 Hour | ∏ 1 Week | ☐ 2 Week |
| *For TEM Air 3 hr through | 6 hr, please call at | read to sch | nedule.*There is a prer completed in accorda | nium ch | arge for 3 Hour TE | M AHE | ERA or EPA | Level II TAT. | You will be asked to sign |
| | samples are from | | TEM - Air 4- | | | | TEM- D | | iodri ilio Guido. |
| NIOSH 7400 | | , | ☐ AHERA 40 C | | | ĺ | | vac - ASTM I | 3 5755 |
| w/ OSHA 8hr. TW/ | - | | ☐ NIOSH 7402 | - | 211 100 | | | - ASTM D64 | |
| | | | 1 = | | | | | | |
| PLM - Bulk (reporting | | | EPA Level II | | | ł | | | (EPA 600/J-93/167) |
| ☐ PLM EPA 600/R-93 | • • | | ☐ ISO 10312 | | | | | :k/Vermiculit | |
| ☐ PLM EPA NOB (<1 | %) | | TEM - Bulk | _ | | | _ | | A (0.25% sensitivity) |
| Point Count | | | ☐ ŢEM EPA NO | | | | | | 3 (0.1% sensitivity) |
| □ 400 (<0.25%) □ 10 | • • | | NYS NOB 19 | - | n-friable-NY) | | | | 3 (0.1% sensitivity) |
| Point Count w/Gravime | | | Chatfield SOF | | | | | | C (0.01% sensitivity) |
| 400 (<0.25%) 🗌 10 | | | ☐ TEM Mass Ar | | | 2.5 | | | ration Technique |
| NYS 198.1 (friable | • | | TEM – Water: El | | | ļ | | | p-Mount Technique |
| □-NYS-198.6 NOB (n | on-friable-NY) | _ | _Eibers.>10μm | Wa | ste $_{oxdot}\Box$ _Drinking | •] | Other: | , - | |
| ☐ NIOSH 9002 (<1%) |) | | All Fiber Sizes | ☐ Wa | ste Drinking | ;] | | | |
| ☐ Check For Positive | e Stop – Clearl | y Identify | y Homogenous G | roup | Filter Pore Si | ze (A | ir Sample | es): 🕡 0.8µ | ım 🔲 0.45μm |
| Samplers Name: | | | | Sa | mplers Signati | иге: | | | |
| - | | | | | , | | Volume | /Area (Air) | Date/Time |
| Sample # | | | Sample Descripti | on | | - | HA # | (Bulk) | Sampled |
| | | | | | | وسينتس | - | | ~ |
| | SEE A | TTACH: | ED | | | | | _ | |
| | | | | | | | | | |
| Note! Two Sun | les Inbelle | L 091 | 0-01 submitt | 71. | Breed on | 711 | uon/ | Time OFF | the |
| P. b. 1.70 | All to 1 | 1-001 | gu ove Sar | - را ب <i>ي</i> | 00 0910- | -02 | ، ہو ا | 9-12-14. | |
| <u> </u> | V-1000 V- 70 | | 70- 00- 3101 | | 0110 | | <i></i> | , , , 1 , | |
| , | | | | | | | | | |
| | Pleas e | -mail | results to | o | | | | | 1 |
| | ggilmor | re@mat | rixneworld | l.co | n & | | | | . ; |
| | msheldo | n@mat | rixneworld | . ÇOI | n | | | | |
| Client Sample # (s): | 0910-01 | | | 910- | -10 | | I Total # of | Samples: | 10 |
| - | | -// | · · | | <i>/ </i> | | 1001 # 01 | | |
| Relinquished (Client) | 1. (90 | <u> </u> | Date: | 9/ | 10/14 | | | Time | : 1339 |
| Received (Lab): | | m | Date: | 9/ | 12/14 | | | Time | : 10:43 am |
| Comments/Special In | structions: | | | ` | • | | • | | |
| | | | | | | | | | |

031435223 AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering

7

East Hanover, N.J. 07936 120 Eagle Rock Avenue,

Phone: 973-240-1800 Fax: 973-240-1818

Flow Rate Method: Primary or Secondary Date of Last Calibration: 8/21/14 Rotometer No.: MX- 9

g g

Page

Phase /

| Project Name: | | | - | ا قا - | ! | Analysis Requested: | nested: | 12-243-08 | | |
|---------------------|---------------------------------|-----------------------------|---------------------|-------------------|----------------|---------------------|----------|------------------------------------|----------------|---------|
| Site Location: | n: /1 Ludiow Ave. Newark, NJ | L) | □ Immediate | □ ≥ | | Aspestos | _ | | <u>1</u> | |
| Sampled By: | /: Matt Sheldon | Tyver Gumare | □ 48 HRS □ Other | 72 | 72HRS (| PCM) TEM | Mold | Project Manager: <u>G. Gilmore</u> | iger: G. Gilff | |
| Date: 7/10/19 | | | | -0.7 | | | | | | |
| | | | Initial / Final | NO E | | | Total | | | |
| | | | Rate | Rate | Time On/ | Total Time | Volume | fibers/ | Limit of | 1 |
| | Sample ID # | Location | (LPM) | (LPM) | Time Off | (Minutes) | (Liters) | field | Defection | Kesnits |
| | | OUTSIDE DECON CLEAN | 9/3 | 0.0 | 0750 | 254 | 1,270 | • | | |
| | 0410-51 | | 3 | | | | | | | |
| | 0410-02 | RAMP DUSIDE AFD BANT | 5.0 | 5.0 | (214) | 253 | 1,290 | | | |
| 10 2 | 0910-03 | Outside Boler Room AFD BANT | 5.0 | 5.0 | 0746 1209 | 263 | 1,315 | | | |
| , age | 40-0160 | DUTSIDE WASTE CONTAINER | 5.0 | 5.0 | 121 | 267 | 1,335 | | | |
| 1 | 0910-08 | OUTSIDE DECON CLEAN | 5.0 | \$. \$ | 1204 | 326 | 1,630 | | | |
| | 00.00 | RAM? DUTSIDE AFO BAINT | 5.0 | 5.0 | 1219 | 304 | 1,520 | | | |
| | F0-0110 | OUTSIDE BUIER ROOK! AFT | 5.0 | 5.5 | 3271 | 316 | 1,580 | | | |
| , | 80-0160 | DUTADE WASTE CONTINUET | 50 | 5.0 | 7271 | 314 | 1,570 | | | |
| ξ: | 0.0180 | FIELD BLANK | | | | | | | | |
| ZZSE# | 01/0/10 | → | | | | | | | | |
| D: Selinquished By: | Ord Table | Date: 9/10/14 | | | Received By: | More m | | Date: 9/12/14 | 4/12/14 | |

Analyst: _

Page 2 Of

OrderID:

Time:

ķ

10:43 am



307 West 38th Street, New York, NY 10018

(212) 290-0051 / (212) 290-0058 Phone/Fax:

http://www.EMSL.com manhattanlab@emsl.com EMSL Order: CustomerID:

031436198

MATX53

CustomerPO: ProjectID:

Attn: G. GILMORE **Matrix New World Engineering** 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 Fax: (973) 240-1818 Received: 09/19/14 10:33 AM

Analysis Date: 9/20/2014 Collected: 9/17/2014

Project: 12-243-08/ 71 LUDLOW AVE., NEWARK, NJ/ DURING

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

| Sample | Location | Sample Date | Volume (liters) Fib | ers | Fields | LOD (fib/cc) | Fibers/ mm² | Fibers/ cc Notes |
|----------------|---------------------|-------------|------------------------|------|--------|-----------------|----------------|---------------------|
| 0917-01 | IWA, MIDDLE/WEST | 9/17/2014 | 610.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 031436198-0001 | DOOR | | | | | | | |
| 0917-02 | IWA, HALLWAY-CENTER | 9/17/2014 | 610.00 | 9.5 | 100 | 0.004 | 12.1 | 0.008 |
| 031436198-0002 | | | | | | | | |
| 0917-03 | OWA, DECON/ EXHAUST | 9/17/2014 | 610.00 | <5.5 | 100 | 0.004 | <7.01 | <0.004 |
| 031436198-0003 | | | | | | | | |
| 0917-FB01 | FIELD BLANK | 9/17/2014 | • | <5.5 | 100 | | <7.01 | Field Blank |
| 031436198-0004 | | | | | | | | |
| 0917-FB02 | FIELD BLANK | 9/17/2014 | • | <5.5 | 100 | | <7.01 | Field Blank |
| 031436198-0005 | | | | | | | | |

The results reported have been blank corrected as applicable.

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.25, 21-50 fibers = 0.22, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 09/20/2014 10:14:50



307 West 38th Street, New York, NY 10018

(212) 290-0051 / (212) 290-0058 Phone/Fax:

manhattanlab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID:

031436198

MATX53

CustomerPO: ProjectID:

Attn: G. GILMORE **Matrix New World Engineering** 26 Columbia Turnpike Florham Park, NJ 07932

(973) 240-1800 Phone: Fax: (973) 240-1818 Received: 09/19/14 10:33 AM

Analysis Date: 9/20/2014 Collected: 9/17/2014

Project: 12-243-08/71 LUDLOW AVE., NEWARK, NJ/ DURING

The samples in this report were submitted to EMSL for analysis by Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:: 9/19/2014 Sample Receipt Time: 10:33 AM 9/20/2014 Analysis Completed Time: 2:08 AM Analysis Completed Date:

Analyst(s):

Feng Liang PCM (5)

Samples reviewed and approved by:

James Hall, Laboratory Manager or other approved signatory

James PAIN

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.25, 21-50 fibers = 0.22, 51-100 fibers = 0.18. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

OrderID: 031436198



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

03436098

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Company: Matris New Wor | ld | | II to: ☐ Same ☐ Different erent note instructions in Comments** | |
|--|----------------------------------|--------------------------------|--|---------------|
| Street: 26 Columbia Turn | | | uires written authorization from third | nartv |
| City: Florum Park | State/Province: NJ | Zip/Postal Code: | Country: | party |
| Report To (Name): | | Telephone #: | | |
| Email Address: | | Fax #: | Purchase Order: | |
| | 243 E-08 | Please Provide Results: | | |
| U.S. State Samples Taken: | 1,200 | | Commercial Residential | |
| | Turnaround Time (TA | AT) Options* - Please Ched | | |
| ☐ 3 Hour ☐ 6 Hour | 24 Hour 48 Hour | 72 Hour 9 | 6 Hour 1 Week | 2 Week |
| *For TEM Air 3 hr through 6 hr, please call al | head to schedule.*There is a pre | emium charge for 3 Hour TEM AH | ERA or EPA Level II TAT. You will be a ditions located in the Analytical Price G | asked to sign |
| PCM - Air Check if samples are from | | 1-4.5hr TAT (AHERA only) | TEM- Dust | aido. |
| NIOSH 7400 | | CFR, Part 763 | Microvac - ASTM D 5755 | 1 |
| ☐ w/ OSHA 8hr. TWA | ☐ NIOSH 740 | | ☐ Wipe - ASTM D6480 | 100 |
| | ☐ EPA Level I | | ☐ Carpet Sonication (EPA 600 | 1/1-93/167) |
| PLM - Bulk (reporting limit) | | | Soil/Rock/Vermiculite | 7010-93/101) |
| ☐ PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | | concitivity. |
| ☐ PLM EPA NOB (<1%) | TEM - Bulk | 0.0 | PLM CARB 435 - A (0.25% | |
| Point Count | TEM EPA N | | ☐ PLM CARB 435 - B (0.1% s ☐ TEM CARB 435 - B (0.1% s | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | ☐ Chatfield SC | 98.4 (non-friable-NY) | ☐ TEM CARB 435 - C (0.01% | |
| Point Count w/Gravimetric | | | ☐ TEM Qual. via Filtration Ted | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | | Analysis-EPA 600 sec. 2.5 | | |
| NYS 198.1 (friable in NY) | TEM - Water: | | TEM Qual. via Drop-Mount | recrinique |
| NYS 198.6 NOB (non-friable-NY) | Fibers >10µm | | Other: | |
| ☐ NIOSH 9002 (<1%) | All Fiber Sizes | ☐ Waste ☐ Drinking | | |
| ☐ Check For Positive Stop - Clearl | y Identify Homogenous (| Group Filter Pore Size (A | Air Samples): 🔲 0.8μm 🔲 0 | .45µm |
| Samplers Name: Moth Sh | | Samplers Signature: | Mart Shelde | |
| Samplers Name. / 10(1) | C ICON | oumpione orginature. | | e/Time |
| Sample # | Sample Descrip | tion | | mpled |
| | | | | |
| | | | | - |
| SEE A | TTACHED | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | And the second | |
| Pleas e | -mail results t | 0 | | |
| ggilmon | re@matrixneworl | d.com & | | |
| msheldo | n@matrixneworl | d.com | | |
| Client Sample # (s): OG 17 1 | - 10 | 0917-FB0Z | Total # of Samples: 5 | 1 |
| | Shele Date | 0/ 111. | Time: | * |
| Received (Lab): KMass | Date | ni-t. | | 39m |
| Comments/Special Instructions: | | / / / | | |

2

Rotometer No.: M+X - \$ 5 Date of Last Calibration: 3/2/19

Page 2 of 2

Flow Rate Method: Primary or Secondary

391769

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering

East Hanover, N.J. 07936

Phone: 973-240-1800

Fax: 973-240-1818

120 Eagle Rock Avenue,

Results Mold Project Manager: G. Gilmore Detection Limit of 10,339m Date: 9/19/14 12-243-08 fibers/ field Time: Lead Volume (Liters) Total Analysis Requested: 9 610 Asbestos PCM TEM Time On/ Total Time (Minutes) 221 221 22 Time Off Received By 92:41 22:91 22:91 14:50 22:91 □ 24 HRS □ 72HRS □ 6 HRS Turnaround Time: (LPM) Rate Flow 5.0 Immediate □ 48 HRS □ Other 0 12 HRS Initial / Final (LPM) Flow Rate 0:5 0.5 Sico 015 2.0 5.0 Hallway - Center Delon / Exhaust IMA, Middle/west Door Field Blank Field Blank Location Date: 9/17/14 Time: CWA DWA Newark, NJ Relinquished By: Math Stalle. 0917-F1302 Site Location: 71 Ludlow Ave. 0917-FBCN Matt Sheldon Sample ID # 0917-03 20-6160 9/17/14 OG17-01 Project Name: O Sampled By: Date:

Analyst:



Attn: Gavin Gilmore

EMSL Analytical, Inc.

1056 Stelton Road, Piscataway, NJ 08854

(732) 981-0550 / (732) 981-0551 Phone/Fax:

http://www.EMSL.com piscatawaylab@emsl.com EMSL Order: CustomerID:

CustomerPO:

ProjectID:

051404226

MATX53

(973) 240-1800 (973) 240-1818

Received: Analysis Date: Collected:

Phone:

Fax:

09/12/14 3:45 PM 9/13/2014 9/12/2014

26 Columbia Turnpike

Florham Park, NJ 07932

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Matrix New World Engineering

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

| | | Volume | Area Analyzed | Non | Asbestos | # Structur | es | Analytical Sensitivity | Asbe Concen | |
|----------------|--|----------|------------------|-----|------------|----------------------|--------------|---------------------------|----------------|---------|
| Sample | Location | (Liters) | (mm^2) | Asb | Type(s) | $\geq 0.5\mu < 5\mu$ | ≥ <i>5</i> µ | (S/cc) | $(S/m m^2)$ | (S/cc) |
| 0912-01 | IWA, North East Boiler Room | 1200.00 | 0.0768 | 1 | None Detec | cted | | 0.0042 | <13.00 | <0.0042 |
| 051404226-0001 | | | | | | | | | | |
| 0912-02 | IWA, North West Boiler Room | 1210.00 | 0.0640 | 1 | None Detec | cted | | 0.0050 | <16.00 | <0.0050 |
| 051404226-0002 | | | | | | | | | | |
| 0912-03 | IWA, Boiler Room Exterior Electric Room | 1210.00 | 0.0640 | 0 | None Detec | cted | | 0.0050 | <16.00 | <0.0050 |
| 051404226-0003 | | | | | | | | | | |
| 0912-04 | IWA, Middle Hallway | 1210.00 | 0.0640 | 1 | Chrysotile | 1 | 1 | 0.0050 | 31.00 | 0.0099 |
| 051404226-0004 | | | | | | | | | | |
| 0912-05 | IWA, Storage Room Entrance | 1220.00 | 0.0640 | 0 | Chrysotile | 2 | 0 | 0.0049 | 31.00 | 0.0099 |
| 051404226-0005 | | | | | | | | | | |

| Analyst(s) | |
|-------------------|--|
| Susan Pollack (5) | |

Chaiyut Sae Lao, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037

Initial report from 09/13/2014 13:29:47



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

051404226

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

3

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Company: Matris New Wor | ld | | ill to: Same Diffe | |
|--|---------------------|--|--|--|
| Street: 26 Columbia Turn | Pike | | quires written authorization | |
| City: Florum Park | State/Province: NJ | Zip/Postal Code: | Country: | uma paity |
| Report To (Name): | Otaten Tovince: | Telephone #: | - Country | |
| Carlos de la Carlo | | Fax #: | Purchase Or | rdor |
| Email Address: Project Name/Number: | | Please Provide Results: | | |
| U.S. State Samples Taken: | | Connecticut Samples: | | |
| Col Clate Campios Tanom | Turnaround Time (TA | T) Options* - Please Che | | |
| *For TEM Air 3 hr through 6 hr, please call at an authorization form for this service. | 24 Hour 48 Hour | mium charge for 3 Hour TEM AH | 96 Hour 1 Week HERA or EPA Level II TAT. Y | 2 Week You will be asked to sign cal Price Guide. |
| PCM - Air Check if samples are from | - | -4.5hr TAT (AHERA only) | TEM- Dust | |
| □ NIOSH 7400 | AHERA 40 (| | Microvac - ASTM D | 9070427 |
| w/ OSHA 8hr. TWA | ☐ NIOSH 7402 | 2 | ☐ Wipe - ASTM D648 | |
| PLM - Bulk (reporting limit) | ☐ EPA Level II | | ☐ Carpet Sonication | |
| ☐ PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculity | |
| ☐ PLM EPA NOB (<1%) | TEM - Bulk | | ☐ PLM CARB 435 - A | |
| Point Count | ☐ TEM EPA NO | | ☐ PLM CARB 435 - E | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | ☐ NYS NOB 19 | 98.4 (non-friable-NY) | ☐ TEM CARB 435 - E | |
| Point Count w/Gravimetric | ☐ Chatfield SO | P | ☐ TEM CARB 435 - 0 | |
| 400 (<0.25%) 1000 (<0.1%) | ☐ TEM Mass A | nalysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtr | |
| NYS 198.1 (friable in NY) | TEM - Water: | PA 100.2 | ☐ TEM Qual. via Dro | p-Mount Technique |
| NYS 198.6 NOB (non-friable-NY) | Fibers >10μm | ☐ Waste ☐ Drinking | Other: | |
| □ NIOSH 9002 (<1%) | All Fiber Sizes | ☐ Waste ☐ Drinking | | |
| Samplers Name: Math Sh | 1.1 | Sroup Filter Pore Size (A Samplers Signature: | Mart Shel | m □ 0.45µm |
| Sample # | Sample Descript | tion | Volume/Area (Air) HA # (Bulk) | Sampled |
| | | | | |
| SEE A | TTACHED | | | |
| 522 11 | 11101125 | | | |
| | | | | |
| | | | | |
| Pleas e | -mail results t | .0 * | | |
| N . | re@matrixneworl | 1/2 | | |
| | on@matrixneworld | | | |
| Client Sample #(s): O912 -O1 | | FBOZ | Total # of Samples: | 13 |
| Relinquished (Client): Month S/ | holds | : 9/12/14 | Time: | |
| 0 - 1 S.W 2 | | DEC | ENED | |
| Received (Lab): | Date | : 1120 | Time: | |
| Comments/Special Instructions: | | SEP | 12 2014 34 | 5PM |
| Controlled Document – Asbestos COC – R5 – 1/11/2012 | Page 1 of | pages BY EMSLPISO | ATAWAY | W.I. |

051404226

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Phase Clearance

SD OF

Page Z of 3

Rotometer No.:

Date of Last Calibration:

Flow Rate Method: Primary or Secondary

| lary | | | | (2) |) (E | | _ | | | _ | | | - | | | |
|---|-----------------------------------|-------------------------------------|---------------------------------|----------------------|-----------|-----------------------|---------------------|--------------------------|----------------------|-------------------------|--|----------------------------|-------------------------------|-----------------------------|---------------|----------|
| or Second | | more | | Results | | | | | | | a | 4 | | | | 5 |
| d: Primary | | ager: G. Gill | Limit of | Detection | | | | | | | NECENCED AND ADDRESS OF THE PROPERTY OF THE PR | P 12 20 | EMSL PISCATAIA | HANCH | - 1 | 7 18 |
| iow issue metriod. Frimary or Secondary | 12-243-08 | Project Manager: G <u>. Gilmore</u> | fibers/ | field | | | | | | | NO. | 3 | BY EMSL PIS | | | West N |
| | quested: | Lead | Total Volume | (Liters) | 1216 | 1310 | 0121 | 1320 | _ | | | | > | | Time: | 377 |
| | Analysis Requested: | Asbestos: PCM (TEM | Total Time | (Minutes) | 121 | 121 | 121 | 177 | 221 | 221 | 221 | 771 | 122 | | Walder of a l | 429 |
| | ne: 6 HRS | Z 24 HRS | Time On/ | Q:SS: | 9:55 | 4:56 | 25:1 | 95.5 | 32:21 | 12:26 | 92:21 | b2:h1 | 12:27 | Received Bv. | 12/11/2 | |
| | i a | | Ave Flow Rate | 10 | 2 | 2 | 10 | 10 | 10 | 10 | 10 | 10 | 2 | | | |
| | Turnaroun | 12 HRS 1 48 HRS 1 Other | Initial / Final Flow Rate | 10.0 | 10.0 | 10.01 | 10.01 | 10.01 | 10,0 | 10.0 | 0.0 | 0,01 | 10,0 | | | Analyst: |
| | | | Location | IWA Books Books Roun | 3 | IWA ROUM PIPOLIC ROUM | INA, middle Hallway | IWA Storage Roum Entrane | OWA Decon Clean Room | own Middle larp Exhaust | OWA S. Boiler Room Critical | OUA, S. Boiler Roon Exhars | owA , N. Boller Kon waste Rt. | Date: 0/12/14 | Time: | |
| ime: | ion: 71 Ludlow Ave. Newark, NJ | Matt S | Sample ID # | (0~ 2160 | 1 70-2160 | 1 60-2160 | I 60-2160 | 1 50-2160 | 090-2160 | 0 40-2160 | 0 80-2160 | 0912-09 0 | 091270 | RD quished By: Math Shelder | euts 8/d. | |
| Project Name: | Site Location: | Sampled By: Date: | | h1/21/b | + | 2 O£ | ₽ gage | | | | | 9 | 50422 | RD iquished By: | KID: | Orde |

3

Matrix New World Engineering

120 Eagle Rock Avenue, East Hanover, N.J. 07936

Phone: 973-240-1800 Fax: 973-240-1818 051404126

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering 120 Eagle Rock Avenue, East Hanover, N.J. 07936 Phone: 973-240-1800 Fax: 973-240-1818

3

Phase Cleviance

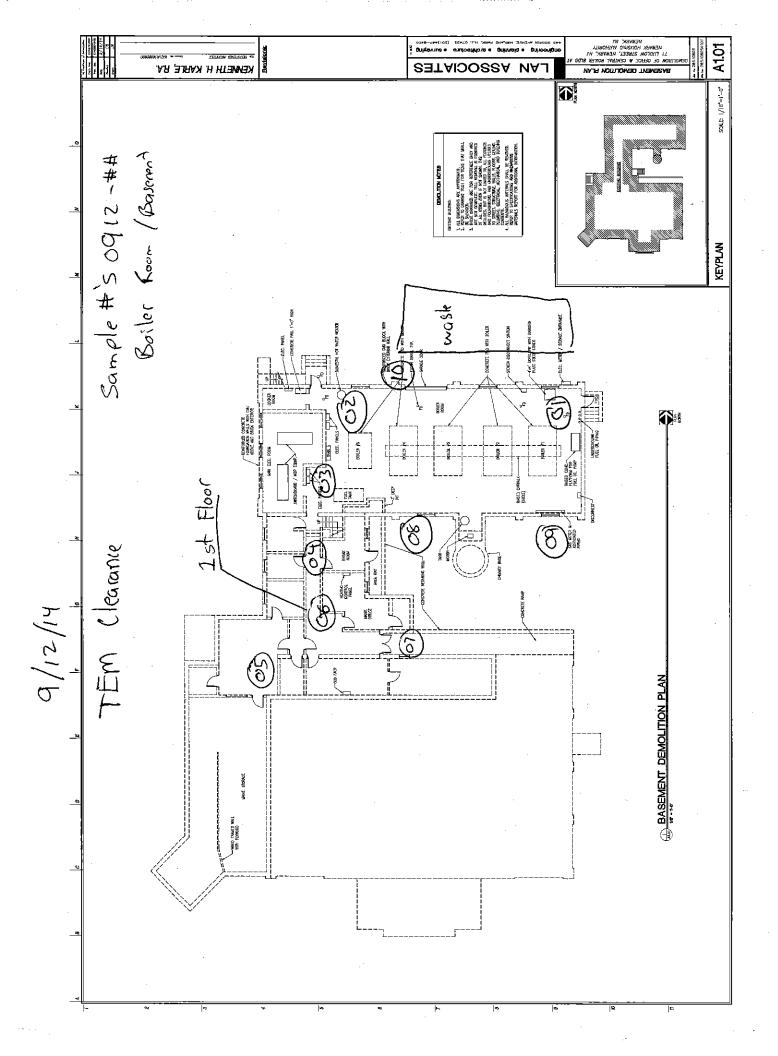
HAIN OF CUSTODY RECORD

Page 2 of 3

Rotometer No.:

Date of Last Calibration:
Flow Rate Method: Primary or Secondary

| Project Name: | me: | | Turnaround | | Analysis Requested: | sted: | 12-243-08 | | |
|---------------------|--------------------|---------------|--|----------------------|------------------------|-----------------------------|-----------------------------|-----------------------|---------|
| | 1 | | Immediate | G HRS | octood o | 700 | | | |
| Sampled By: | Matt S | | | | PCM TEM | Mold | Project Manager: G. Gilmore | ger: G. Gilm | ore |
| Date: | П | | Other | | - 1 | | | | |
| | Sample ID # | Location | Initial / Final Ave Flow Flow Rate Rate (LPM) | Time On/ Time Off | Total Time V (Minutes) | Total Volume (Liters) | fibers/ field | Limit of Detection | Results |
| M/11/16 | 9/12/14 O912- FBO1 | Field Blank | 4 | | | | | | |
| _ | 0912-FBUZ | Field Blank | ${}$ | \bigvee | | | | | |
| 3 O£ | 0912-5801 | Sealet Blank | 7 | / | | | | | |
| Ьчде | | | 1 | | | | | | |
| | | | | | | | | | |
| | | | <u>/</u> | 1 | | | | | |
| | | | | / | | | | | |
| | | | | | / | | | RECEIVED | VED |
| 97 | | | | | | | | SEP 12 | 2014 |
| ZZ#0# | | | | | | | BY | | |
| 051 linquished E | BY: MAH SPERE | Date: 9/12/14 | | Received By: | | ٥ | Date: | SEPISCALAW | WAY |
| GKID: | Max Sel | | | | | Ē | Time: | | |
| Ord | | | Analyst: | | | | | | |





1056 Stelton Road, Piscataway, NJ 08854

(732) 981-0550 / (732) 981-0551 Phone/Fax:

piscatawaylab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID:

051404375

MATX53

CustomerPO: ProjectID:

Attn: Gavin Gilmore **Matrix New World Engineering** 26 Columbia Turnpike Florham Park, NJ 07932

Phone: (973) 240-1800 Fax: (973) 240-1818 09/22/14 3:00 PM Received: Analysis Date: 9/23/2014 Collected: 9/22/2014

Project: 12-243-08 / 71 Ludlow Ave, Newark, NJ

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

| Sample | Location | Volume (Liters) | Area Analyzed (mm²) | Non Asb | Asbestos Type(s) | # Structure ≥ 0.5µ < 5µ | es ≥5µ | Analytical Sensitivity (S/cc) | Asbe Concen (S/mm²) | |
|---------------------------|---------------------------|--------------------|---------------------------|------------|---------------------|----------------------------|-----------|-------------------------------------|---------------------------|---------|
| 0922-01 051404375-0001 | IWA, SW Office | 1294.00 | 0.0640 | 0 | None Dete | <u> </u> | op | 0.0046 | <16.00 | <0.0046 |
| 0922-02 051404375-0002 | IWA, SW Outer Office | 1294.00 | 0.0640 | 0 | None Dete | ected | | 0.0046 | <16.00 | <0.0046 |
| 0922-03 051404375-0003 | IWA, Middle of Lower Hall | 1294.00 | 0.0640 | 0 | None Dete | ected | | 0.0046 | <16.00 | <0.0046 |
| 0922-04 051404375-0004 | IWA, Middle of Hall | 1294.00 | 0.0640 | 0 | None Dete | ected | | 0.0046 | <16.00 | <0.0046 |
| 0922-05 051404375-0005 | IWA, North End of Hall | 1294.00 | 0.0640 | 0 | None Dete | ected | | 0.0046 | <16.00 | <0.0046 |

| Analyst(s) | |
|----------------------|--|
| Justin Senerchia (5) | |

Nicholas Maslowski or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from 09/23/2014 14:16:42



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

051404375

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 3

PHONE: (800) 220-3675 FAX: (856) 786-5974

| Marian Carana Carana San San San San San San San San San | | EMSL-B | sill to: Same Diffe | rent |
|--|---|-------------------------------|--|---|
| Company: Matris New Wor | | If Bill to is Dif | ferent note instructions in Comr | ments** |
| Street: 26 Columbia Turn | Pike | Third Party Billing re | quires written authorization | from third party |
| City: Florum Park | State/Province: NJ | Zip/Postal Code: | Country: | |
| Report To (Name): | | Telephone #: | | |
| Email Address: | | Fax #: | Purchase Or | der: |
| Project Name/Number: 12 - 24 | 13-08 | Please Provide Results | | ☐ Mail |
| U.S. State Samples Taken: | | Connecticut Samples: | | idential |
| | | T) Options* – Please Che | | |
| *For TEM Air 3 hr through 6 hr, please fall a an authorization form for this service | 24 Hour 48 Hour head to schedule. *There is a pre Analysis completed in accorda | mium charge for 3 Hour TEM AF | 96 Hour 1 Week HERA or EPA Level II TAT. Younditions located in the Analytic | Ou will be asked to sign cal Price Guide. |
| PCM - Air Check if samples are fr | | -4.5hr TAT (AHERA only) | TEM- Dust | |
| □ NIOSH 7400 | AHERA 40 C | CFR, Part 763 | ☐ Microvac - ASTM □ | 5755 |
| w/ OSHA 8hr. TWA | ☐ NIOSH 7402 | 2 | ☐ Wipe - ASTM D648 | 30 |
| PLM - Bulk (reporting limit) | ☐ EPA Level II | | ☐ Carpet Sonication (| (EPA 600/J-93/167) |
| PLM EPA 600/R-93/116 (<1%) | ☐ ISO 10312 | | Soil/Rock/Vermiculite | 2 |
| PLM EPA NOB (<1%) | TEM - Bulk | | ☐ PLM CARB 435 - A | (0.25% sensitivity) |
| Point Count | ☐ TEM EPA NO | OB . | ☐ PLM CARB 435 - B | (0.1% sensitivity) |
| 400 (<0.25%) 1000 (<0.1%) | ☐ NYS NOB 19 | 8.4 (non-friable-NY) | ☐ TEM CARB 435 - B | |
| Point Count w/Gravimetric | ☐ Chatfield SO | | ☐ TEM CARB 435 - C | |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%) | | nalysis-EPA 600 sec. 2.5 | ☐ TEM Qual. via Filtra | |
| NYS 198.1 (friable in NY) | TEM - Water: E | | ☐ TEM Qual. via Drop | o-Mount Technique |
| NYS 198.6 NOB (non-friable-NY) | | ☐ Waste ☐ Drinking | Other: | |
| □ NIOSH 9002 (<1%) | All Fiber Sizes | ☐ Waste ☐ Drinking | | |
| Check For Positive Stop - Clear | ly Identify Homogenous G | roup Filter Pore Size (| Air Samples): 0.8µ | m □ 0.45µm |
| | | | | |
| Samplers Name: | | Samplers Signature: | | |
| Sample # | Sample Descript | ion | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
| Campie ii | Sample Descript | ion | TIA # (Bulk) | Sampled |
| | | | | |
| SEE A | TTACHED | | | |
| | | | - | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Pleas e | -mail results t | 0 | | |
| ggilmon | re@matrixneworld | d.com & | | |
| msheldo | on@matrixneworld | l.com | | |
| Client Sample # (s): 0927-01 | | 0922-53 | Total # of Samples: | 13 |
| | -D01 | 1 to 300 to 4 to 5 to 5 | | |
| Relinquished (Client): Muth | Steldn Date | : 9/22/14 | RECEIVED | 15:00 |
| Received (Lab): | Date | : | Time: | |
| Comments/Special Instructions: | | * | SEP 2 2 2014 | 3PM |
| | | | 1 > 1 | 1117 |
| Controlled Document – Asbestos COC – R5 – 1/11/2012 | Page 1 of | bages BY | MSLPISCATAWAY | ~ W.L |

051404375 Page 2 of 3

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering

3

East Hanover, N.J. 07936 120 Eagle Rock Avenue,

Phone: 973-240-1800 Fax: 973-240-1818

Phase Clearance

Rotometer No.: M+ x - S

Date of Last Calibration: \$ /21/19

Flow Rate Method: Primary or Secondary

| | 71 Ludlow Ave. | Turnarour | D | me: | Analysis Requested: | quested: | 12-243-08 | | |
|-------------------|----------------------------|-----------------|------|--------------|---------------------|----------|-----------------------------|-----------------------|---------|
| | N. | | | Z4 HRS | Asbestos | _ | | | |
| Date: | | □ 48 HRS | 7 - | □ 72HRS | PCM (TEM | Mold | Project Manager: G. Gilmore | ager: G <u>. Gilm</u> | ore |
| | | | | | | | | | |
| | | Initial / Final | Ave | | | F | | | |
| 4 (1 | 7 | Rate | Rate | Time On/ | Total Time | Volume | fibers/ | Limit of | - |
| 9/12/kl | Location | 10:0 | 995 | 9:35 | (winnies) | (Liters) | TIEIG | Defection | Kesuits |
| | | 10,0 | 36 6 | 9:35 | 30 | אט כ . | | | |
| | 11 00 00ki OC 41ch | 0,0 | . 0 | 9:36 | | | | | |
| 50-2260 | ILLA, Middle of loner Hall | î. | 4.45 | 11:46 | 1,50 | 1,294 | | | |
| 0922-04 | IMA, Middle of Hal | 000 | 8,95 | 94:11 | 130 | 462 1 | | | |
| 50-2260 | IWA, North end of Hall | 0.0 | 9.95 | 96:36 | 130 | h52'1 | | | |
| 0922-1301 | M Field Blank | 1 | / | | (| | | | |
| 0912-F1302 | | | | | | | | | |
| 0922-58 | Spaleb Blank | | | | | | | RECEIV | |
| | | | | | | | | SEP 22 | 4107 |
| GLEPOP" | | | | | | | BY | EMSLPISCATAWAY | ΙΑΥ |
| ed By: Muth Sholo | 4 Date: 9/22/14 | | | Received By: | | ٥ | Date: | | |
| | Time: (5:00 | | | | | Ī | Time: | | |

AIR SAMPLE DATA / CHAIN OF CUSTODY RECORD

Matrix New World Engineering 120 Eagle Rock Avenue, East Hanover, N.J. 07936 Phone: 973-240-1800 Fax: 973-240-1818

(Learante Phase

Flow Rate Method: Primary or Secondary 051404375 Page 3 of 3 Date of Last Calibration: 8/ 2/ Rotometer No.: MAx- 8

| Titudow Ave. Tundow Ave. Tunnactiane Sample lib# Sabestee Sample lib# Sample lib# Location Location Coher Flow | Project Name | amo. | | | | | | | | | | |
|--|--------------|---|---------|-------------------|-----------------|----------|----------------|--------------|-----------------|-----------|---------------|---------|
| Turnaround Time: Turnaround | רוטפרו ואל | | | | | | | | | | | |
| | Site Local | | ai | | | d Tin | ė. | Analysis Req | uested: | 20 040 04 | | |
| 12 HRS 1 | | Newark, | S | | | | S HRS | | | 12-243-08 | | |
| Dispersion D | Sampled | Matt S | | | | D | 24 HRS | di | Lead | | | |
| Initial Final Flow Limit of | Date: | | | | |] | ZHKS | | Mold | | ager: G. Gilm | ore |
| Flow Flow Flow Flow Flow Flow Flow Flow | | | | | Initial / Final | | | | | | | |
| OwA Entrangl (LPM) Time Off (Minutes) (Liters) field Datection OwA Entrangl 10.0 9.95 11.55 136 1,294 1,294 OwA Entrangl 10.0 9.95 11.55 136 1,294 1,294 OwA Entrangl 10.0 9.95 11.55 136 1,294 1,294 OwA United to the original windowth 10.0 9.95 11.55 136 1,294 1,294 OwA United to the original windowth 10.0 9.95 11.55 136 1,294 1,204 OwA United to the original windowth 10.0 9.95 11.55 136 1,303 1,303 1,303 OwA United to the original windowth 10.0 9.95 11.55 1,303 1,303 1,303 1,303 OwA United to the original windowth 10.0 9.95 11.55 1,303 1,303 1,303 1,303 OwA | | \$ C. | | | Flow Rate | Flow | Time On/ | | Total Volume | fibers/ | Limit of | |
| OWA Exhaust \(\text{ion}\) \(\text{iiios}\) \(\text{iiios}\) \(\text{iiios}\) \(\text{iios}\) \(\text{iiios}\) \(\text{iios}\) \(\text{iios} | alsolu | | | | (LPM) Š | (LPM) | Time Off | (Minutes) | (Liters) | field | Detection | Results |
| OWA Exhaush 10.0 q.q5 11.55 136 1,294 OWA Cr.Aical windowth 10.0 q,q5 11.55 136 1,294 OWA Work Koule 10.0 q,q5 11.55 136 1,294 OWA Lilist 10.0 q,q5 11.55 136 1,294 OWA Lilist 10.0 q,q5 11.55 1,503 Owa Liline: 11.503 11.503 Material windows 11.504 11.503 Material windows 11.503 11.504 Material windows 11 | 1/00/1 | 20-2260 | ₹3 0 | + | 00.0 | 3.5 | 14:05 | 130 | 162' | | | |
| OWA (c.t.ical window*!) 10.00/40 9, 95 11.55 136 1,294 OWA Work Rouge 495 11.55/1405 (3 1,294 OWA (i.t.ical c.i.ndow*2 10.00/40 9, 9, 90 11.55/140 9, 95 11.55/140 Date: 9/22/14 — Time: 15:00 Time: 15:00 | + | 10-2260 | OWA | | 0.001 | 9,95 | 11:55 | | 1,294 | | | |
| OWA Work Rouge 49.90 9.95 11:55 (3) 1,303 OWA (1,4;cal cuindant 10.00 9.95 11:55 (3) 1,303 Date: 9/22/17 Time: 15:00 Time: 15:00 | - | 80-2260 | OWA | Critical winds #1 | 9.00 | 56'6 | 25:11 20:11 | | 462' | | | |
| Owh (1,1,1,1,1) 10,0 9.95 11:55 1,303 | | 50-2760 | OWA | Work Roufe | 0,00 | 55% | 17:55 | | 1,303 | | | |
| Date: 9/22/H Time: (5:0 ∪ Time: 15:0 ∪ Time: 15:0 ∪ Time: 15:0 ∪ Time: 15:0 ∪ | 4 | 01-2260 | 430 | (litical wind #2 | 2,0,0 | 356 | 11:55 | | 1,303 | | | |
| Date: 9/22/H Time: 1/5:00 Time: Asian Architer | - | | | | | | | | | | | |
| Date: 9/22/14 Time: 1/5:0 ∪ Time: 1/5:0 ∪ Time: 1/5:0 ∪ | | | | | | | | | | | | |
| Date: 9/22/l*1 Time: 1/5:0 U Time: 1/5:0 U Time: 1/5:0 U | | | | | | | 1 | | | | | |
| Date: q/22/l·1 Received By: Date: | | | | | | | Ī | | | | RECEIVE | |
| Date: q/22/l·1 Time: 15:00 Time: | 2 | | | | | | | | | S | EP 2.2.20% | Tape |
| Time: 15:00 | linquished E | 3. Mart 3led | | e: 9/25/14 | | | Received By: | | | \geq | ISCATAWAY | |
| | | | Time | D 15:00 | | | | | Tim | | | |
| | - n | | | | Anology. | | | | | | | |

